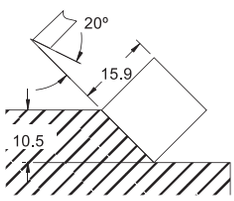
Insert For Face Mill Cutter

EXAMPLE **ISO CODE**

Positive
Axial Rake
Radial Rake

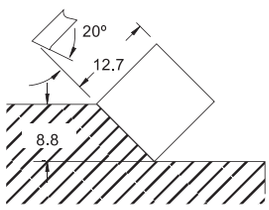
45°



$^{5}/_{8}$ x $^{3}/_{16}$ Insert
SEC 53
SECN 1504
SEKN 1504
FOR SE-545

Positive
Axial Rake
Radial Rake

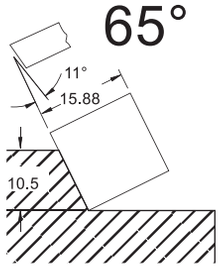
45°



$^{1}/_{2}$ x $^{1}/_{8}$ Insert
SEC 42
SECN 1203
SEKN 1203
FOR SE-445

Positive
Axial Rake
Positive
Radial Rake

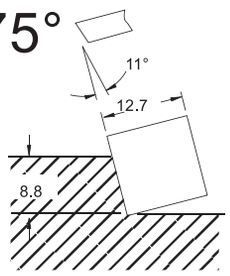
65°



$^{5}/_{8}$ x $^{3}/_{16}$ Insert
SPU-53, SPCN 1504
SPG-53, SPKN 1504
FOR SP-TYPE

Positive
Axial Rake
Radial Rake

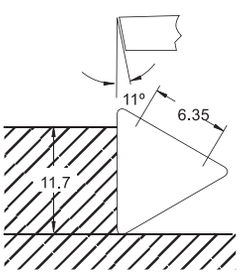
75°



$^{1}/_{2}$ x $^{1}/_{8}$ Insert
SPU-42, SPKN 1203
SPG-42, SPMN 1203
FOR FP-TYPE

Positive
Axial Rake

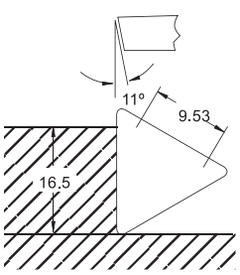
90°



$^{1}/_{4}$ x $^{3}/_{32}$ Insert
TPG-21
TPMN 1102
FOR SAE-TYPE

Positive
Axial Rake

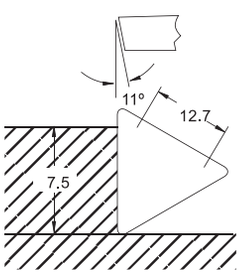
90°



$^{3}/_{8}$ x $^{1}/_{8}$ Insert
TPU-32
TPG-32
TPMN 1603
TPCN 1603
FOR SAE-TYPE

Positive
Axial Rake
Radial Rake

90°



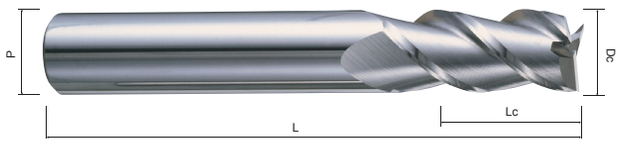
$^{1}/_{2}$ x $^{3}/_{16}$ Insert
TPK-43
TPKN 2204
TPMN 2204
FOR TP-TYPE

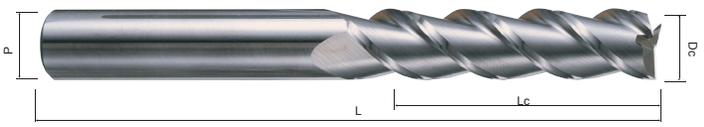
※All cutting tools are floating price.
contact us before ordering.

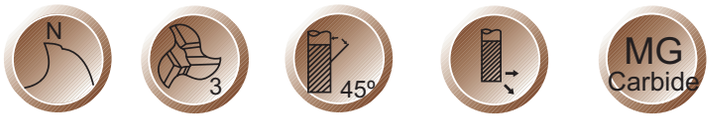
Universal End Mills

Professional For Aluminium, Copper, Steels

CARBIDE







Work Material / Velocity m/min

ORDER NO.	GR.1 Non alloyed steels Alloyed Steels	GR.3 Hardened steels < 48 HRC	GR.9 Copper	GR.10 Aluminium	GR.11 Plastics
VE133	40-120	30-50	100-200	100-450	150-200
VE135	25-70	20-30	60-120	60-300	80-120

Standard Length(Order No. VE133-Dia)

Unit:mm

ORDER NO.	Dc e8	Lc mm	L mm	d h6	CODE NO.
VE133-1.0	1.0	3	38	3	6007-460
VE133-1.5	1.5	5	38	3	6007-461
VE133-2.0	2.0	6	38	3	6007-462
VE133-2.5	2.5	7	38	3	6007-463
VE133-3.0	3.0	9	38	3	6007-464
VE133-4.0	4.0	14	50	4	6007-465
VE133-5.0	5.0	16	50	5	6007-466
VE133-6.0	6.0	20	63	6	6007-467
VE133-7.0	7.0	20	63	8	6007-468
VE133-8.0	8.0	20	63	8	6007-469
VE133-9.0	9.0	22	72	10	6007-470
VE133-10.0	10.0	22	72	10	6007-471
VE133-12.0	12.0	26	75	12	6007-472
VE133-14.0	14.0	30	89	14	6007-473
VE133-16.0	16.0	32	89	16	6007-474
VE133-18.0	18.0	38	100	18	6007-475
VE133-20.0	20.0	38	100	20	6007-476

Long Length(Order No. VE135-Dia)

Unit:mm

ORDER NO.	Dc e8	Lc mm	L mm	d h6	CODE NO.
VE135-3	3	20	57	3	6007-480
VE135-4	4	20	57	4	6007-481
VE135-5	5	25	63	5	6007-482
VE135-6	6	28	75	6	6007-483
VE135-7	7	30	75	8	6007-484
VE135-8	8	30	75	8	6007-485
VE135-9	9	32	75	10	6007-486
VE135-10	10	32	75	10	6007-487
VE135-12	12	50	100	12	6007-488
VE135-14	14	57	127	14	6007-489
VE135-16	16	57	127	16	6007-490
VE135-20	20	57	127	20	6007-491

IT'S A VERTEX EXCELENT CARBIDE END MILL

GOOD MATERIAL + GOOD PROCESS MACHINE + GOOD COATING EQUIPMENT

EXTRAMENT SWISSLAND

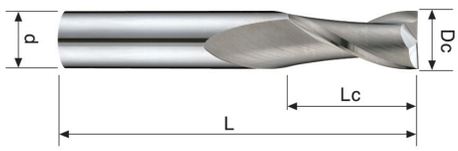
WALTER GERMANY

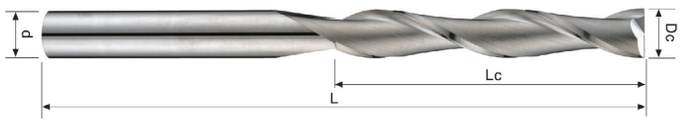
balzers BALINIT® coatings SWISSLAND

Universal End Mills

VERTEX®

CARBIDE





Work Material / Velocity m/min

ORDER NO.	GR.1 Non alloyed steels Alloyed Steels	GR.3 Hardened steels < 48 HRC	GR.6 Iron	GR.9 Copper	GR.10 Aluminium	GR.11 Plastics
VEA72	40-120	30-50	40-80	100-200	100-450	150-180
VEA82	25-70	20-50	25-60	60-120	60-300	80-120

Standard Length(Order No. VEA72-Dia)

Unit:mm

ORDER NO.	Dc h10	Lc mm	L mm	d h6	CODE NO.
VEA72-0.3	0.3	0.8	38	3	6008-001
VEA72-0.5	0.5	1.2	38	3	6008-003
VEA72-0.6	0.6	1.5	38	3	6008-004
VEA72-1.0	1.0	3.0	38	3	6008-008
VEA72-1.5	1.5	5.0	38	3	6008-009
VEA72-2.0	2.0	6.0	38	3	6008-010
VEA72-2.5	2.5	7.0	38	3	6008-011
VEA72-3.0	3.0	9.0	38	3	6008-012
VEA72-4.0	4.0	14.0	50	4	6008-014
VEA72-5.0	5.0	16.0	50	5	6008-016
VEA72-5.5	5.5	16.0	50	6	6008-017
VEA72-6.0	6.0	20.0	63	6	6008-018
VEA72-7.0	7.0	20.0	63	8	6008-019
VEA72-8.0	8.0	20.0	63	8	6008-020
VEA72-9.0	9.0	22.0	72	10	6008-021
VEA72-10.0	10.0	22.0	72	10	6008-022
VEA72-12.0	12.0	26.0	75	12	6008-024
VEA72-16.0	16.0	32.0	89	16	6008-026
VEA72-20.0	20.0	38.0	100	20	6008-028

Long Length(Order No. VEA82-Dia)

Unit:mm

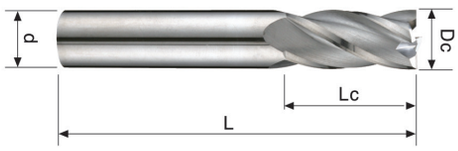
ORDER NO.	Dc h10	Lc mm	L mm	d h6	CODE NO.
VEA82-3	3	20	57	3	6008-040
VEA82-4	4	20	57	4	6008-041
VEA82-5	5	25	63	5	6008-042
VEA82-6	6	28	75	6	6008-043
VEA82-8	8	30	75	8	6008-044
VEA82-10	10	32	75	10	6008-045
VEA82-12	12	50	100	12	6008-046

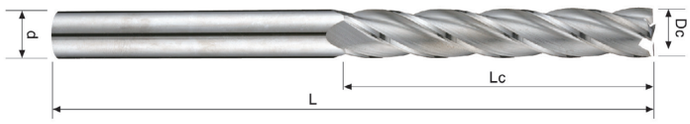
Finishing End Mills

VERTEX®

CARBIDE

MG Carbide | Uncoated Blank | 30° | 4 | 90° | Steels | Iron | Copper | Aluminium | Plastics





Work Material / Velocity m/min

ORDER NO.	GR.1 Non alloyed steels Alloyed Steels	GR.3 Hardened steels < 48 HRC	GR.6 Iron	GR.7 Titanium	GR.8 Nickel	GR.9 Copper	GR.10 Aluminium
VEA74	40-120	30-50	40-80	25-80	20-60	100-200	100-450
VEA84	25-70	20-30	25-60	15-50	15-35	60-120	60-300

Standard Length(Order No. VEA74-Dia)

Unit:mm

ORDER NO.	Dc h10	Lc mm	L mm	d h6	CODE NO.
VEA74-1.0	1.0	3	38	3	6008-060
VEA74-1.5	1.5	5	38	3	6008-061
VEA74-2.0	2.0	6	38	3	6008-062
VEA74-2.5	2.5	7	38	3	6008-063
VEA74-3.0	3.0	9	38	3	6008-064
VEA74-3.5	3.5	12	50	4	6008-065
VEA74-4.0	4.0	14	50	4	6008-066
VEA74-4.5	4.5	14	50	5	6008-067
VEA74-5.0	5.0	16	50	5	6008-068
VEA74-5.5	5.5	16	50	6	6008-069
VEA74-6.0	6.0	20	63	6	6008-070
VEA74-7.0	7.0	20	63	8	6008-071
VEA74-8.0	8.0	20	63	8	6008-072
VEA74-9.0	9.0	22	72	10	6008-073
VEA74-10.0	10.0	22	72	10	6008-074
VEA74-11.0	11.0	26	75	12	6008-075
VEA74-12.0	12.0	26	75	12	6008-076
VEA74-14.0	14.0	32	89	14	6008-077
VEA74-16.0	16.0	32	89	16	6008-078
VEA74-18.0	18.0	38	100	18	6008-079
VEA74-20.0	20.0	38	100	20	6008-080

Long Length(Order No. VEA84-Dia)

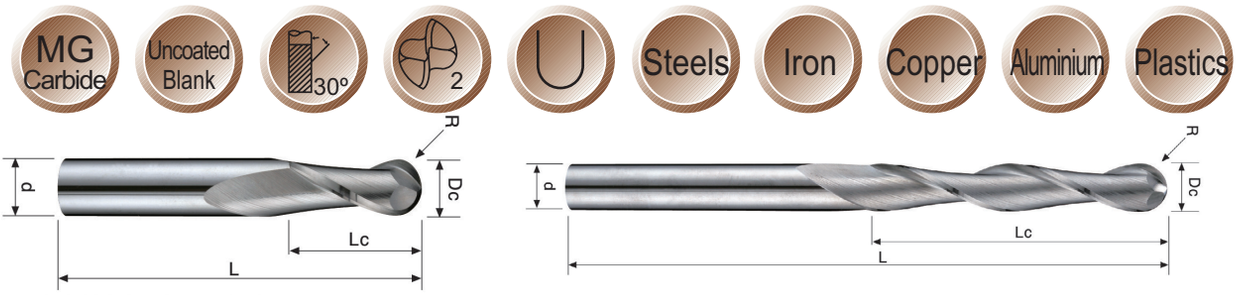
Unit:mm

ORDER NO.	Dc h10	Lc mm	L mm	d h6	CODE NO.
VEA84-3	3	20	57	3	6008-090
VEA84-4	4	20	57	4	6008-091
VEA84-5	5	25	63	5	6008-092
VEA84-6	6	28	75	6	6008-093
VEA84-8	8	30	75	8	6008-094
VEA84-10	10	32	75	10	6008-095
VEA84-12	12	50	100	12	6008-096
VEA84-16	16	57	127	16	6008-098
VEA84-20	20	57	127	20	6008-099

Ball Nose End Mills

CARBIDE

VERTEX®



Work Material / Velocity m/min

ORDER NO.	GR.1 Non alloyed steels Alloyed Steels	GR.3 Hardened steels < 48 HRC	GR.6 Iron	GR.9 Copper	GR.10 Aluminium	GR.11 Plastics
VBB12	40-120	30-50	40-80	60-120	60-300	80-120
VBB80	25-70	20-30	25-60	60-120	60-300	80-120

Standard Length(Order No. VBB12-Dia) Unit:mm

ORDER NO.	Dc h10	R ±0.01	Lc mm	L mm	d h6	CODE NO.
VBB12-0.3	0.3	0.15R	0.6	38	3	6008-100
VBB12-0.5	0.5	0.25R	1.0	38	3	6008-102
VBB12-0.7	0.7	0.35R	1.4	38	3	6008-104
VBB12-1.0	1.0	0.50R	3.0	38	3	6008-107
VBB12-1.5	1.5	0.75R	5.0	38	3	6008-108
VBB12-2.0	2.0	1.00R	6.0	38	3	6008-109
VBB12-2.5	2.5	1.25R	7.0	38	3	6008-110
VBB12-3.0	3.0	1.50R	9.0	38	3	6008-111
VBB12-3.5	3.5	1.75R	12.0	50	4	6008-112
VBB12-4.0	4.0	2.00R	14.0	50	4	6008-113
VBB12-4.5	4.5	2.25R	16.0	50	5	6008-114
VBB12-5.0	5.0	2.50R	16.0	50	5	6008-115
VBB12-5.5	5.5	2.75R	16.0	50	6	6008-116
VBB12-6.0	6.0	3.00R	20.0	63	6	6008-117
VBB12-7.0	7.0	3.50R	20.0	63	8	6008-118
VBB12-8.0	8.0	4.00R	20.0	63	8	6008-119
VBB12-9.0	9.0	4.50R	22.0	72	10	6008-120

Standard Length(Order No. VBB12-Dia) Unit:mm

ORDER NO.	Dc h10	R ±0.01	Lc mm	L mm	d h6	CODE NO.
VBB12-10.0	10.0	5.00R	22.0	72	10	6008-121
VBB12-12.0	12.0	6.00R	26.0	75	12	6008-123
VBB12-14.0	14.0	7.00R	32.0	89	14	6008-124
VBB12-16.0	16.0	8.00R	32.0	89	16	6008-125

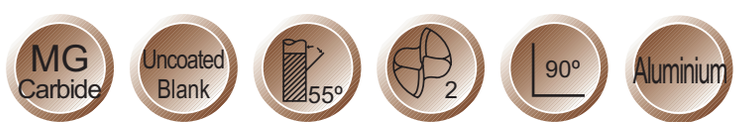
Long Length(Order No. VBB80-Dia) Unit:mm

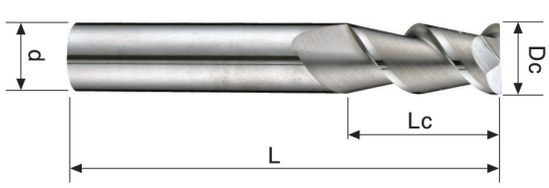
ORDER NO.	Dc h10	R ±0.01	Lc mm	L mm	d h6	CODE NO.
VBB80-3	3	1.5R	20	57	3	6008-140
VBB80-4	4	2.0R	20	57	4	6008-141
VBB80-6	6	3.0R	28	75	6	6008-143
VBB80-8	8	4.0R	30	75	8	6008-144
VBB80-12	12	6.0R	50	100	12	6008-146

END MILLS

End Mills For Aluminium

CARBIDE





Work Material / Velocity m/min

GR.10 Aluminium
100-1200

Standard Length(Order No. VEA92-Dia) Unit:mm

ORDER NO.	Dc h6	Lc mm	L mm	d h6	CODE NO.
VEA92-3	3	9	38	3	6008-160
VEA92-4	4	14	50	4	6008-161
VEA92-5	5	16	50	5	6008-162
VEA92-6	6	20	63	6	6008-163
VEA92-8	8	22	63	8	6008-164
VEA92-10	10	30	72	10	6008-165
VEA92-12	12	30	75	12	6008-166
VEA92-16	16	40	100	16	6008-167
VEA92-20	20	45	100	20	6008-168